

ABBREVIATED EXPLANATION

Approximate stratigraphic relationships only; see Geologic Map Explanation for more accurate stratigraphic relationships and unit descriptions.

SEDIMENTARY AND METASEDIMENTARY ROCKS

VOLCANIC AND METAVOLCANIC ROCKS

CENOZOIC	QUATERNARY	Alluvium	
		Mine and dredge tailings	
		Levee and channel deposits	
		Basin deposits (<i>Alluvium</i>)	
		Intertidal deposits (<i>Peaty mud</i>)	
		Dune sand	
		Lake deposits	
		Older alluvium	
		Glacial deposits	
		Modesto Formation (<i>Alluvium</i>)	Upper and lower members
		Riverbank Formation (<i>Alluvium</i>)	
		Modesto-Riverbank Formations (<i>Arkosic alluvium</i>)	
		Montezuma Formation (<i>Poorly consolidated, clayey sand</i>)	
		Turlock Lake Formation (<i>Sand, silt, and gravel</i>)	Basalt
		Red Bluff Formation (<i>Gravel in reddish, silty or sandy matrix</i>)	
North Merced Gravel (<i>Thin pediment veneer</i>)			
TERTIARY	Tehama Formation (<i>Sand, silt, and volcaniclastic rocks</i>)		
	Laguna Formation (<i>Consolidated alluvial deposits</i>)		
	San Pablo Group (<i>Marine sandstone and shale</i>)	Lawlor Tuff	
	Mehrten Formation (<i>Andesitic conglomerate, sandstone, and breccia</i>)	Dacite, rhyodacite domes	
	Valley Springs Formation (<i>Rhyolitic tuff and sedimentary rocks</i>)	Eureka Valley Tuff	
	Markley Sandstone (<i>Marine</i>)	Table Mountain Latite	
	Nortonville Shale (<i>Marine</i>)	Putnam Peak Basalt	
	Domengine Sandstone (<i>Marine</i>)		
	Capay Formation (<i>Marine sandstone</i>)		
	"Auriferous" Gravels		
	Ione Formation (<i>Quartzose sandstone and kaolinitic clay</i>)		
	Martinez Formation (<i>Marine quartzose sandstone</i>)		
	CRETACEOUS	Guinda Formation (<i>Marine sandstone</i>)	
Chico Formation (<i>Marine sandstone, shale, and conglomerate</i>)			
MESOZOIC	JURASSIC	Salt Springs Slate	Copper Hill Volcanics
		Mariposa Formation (<i>Slate, graywacke, and conglomerate</i>)	Brower Creek Volcanics
		Sailor Canyon Formation (<i>Metasedimentary rocks</i>)	Gopher Ridge Volcanics
PALEOZOIC	Metasedimentary rocks*	Paleozoic-Mesozoic metamorphic rocks	Metavolcanic rocks*
	Crystalline limestone and dolomite*	Augen gneiss of uncertain age	
	Calaveras Complex (<i>Metasedimentary rocks</i>)	Undifferentiated Paleozoic(?) rocks	Calaveras Complex volcanic rocks

PLUTONIC ROCKS

MESOZOIC	Mesozoic granitic rocks
	Mesozoic dioritic rocks
	Gabbroic rocks*
	Ultramafic rocks*

*Horizontal line pattern denotes melange terrane.

MAP SYMBOLS

Contact
(Observed or approximately located; queried where gradational or inferred.)

Fault
(Solid where well located; dashed where approximately located or inferred; dotted where concealed by younger rocks or water; queried where continuation or existence is uncertain. U, upthrown side; D, downthrown side, relative or apparent.)

Anticlinal fold
(Dotted where concealed by younger rocks or water.)

Synclinal fold
(Dotted where concealed by younger rocks or water.)

Overturned fold

Strike and dip of beds
(General strike and dip of stratified rocks.)

Strike and dip of foliation
(General strike and dip of foliation in metamorphic rocks.)

Joints
(Prominent joints in granitic and metamorphic rocks of the high Sierra.)